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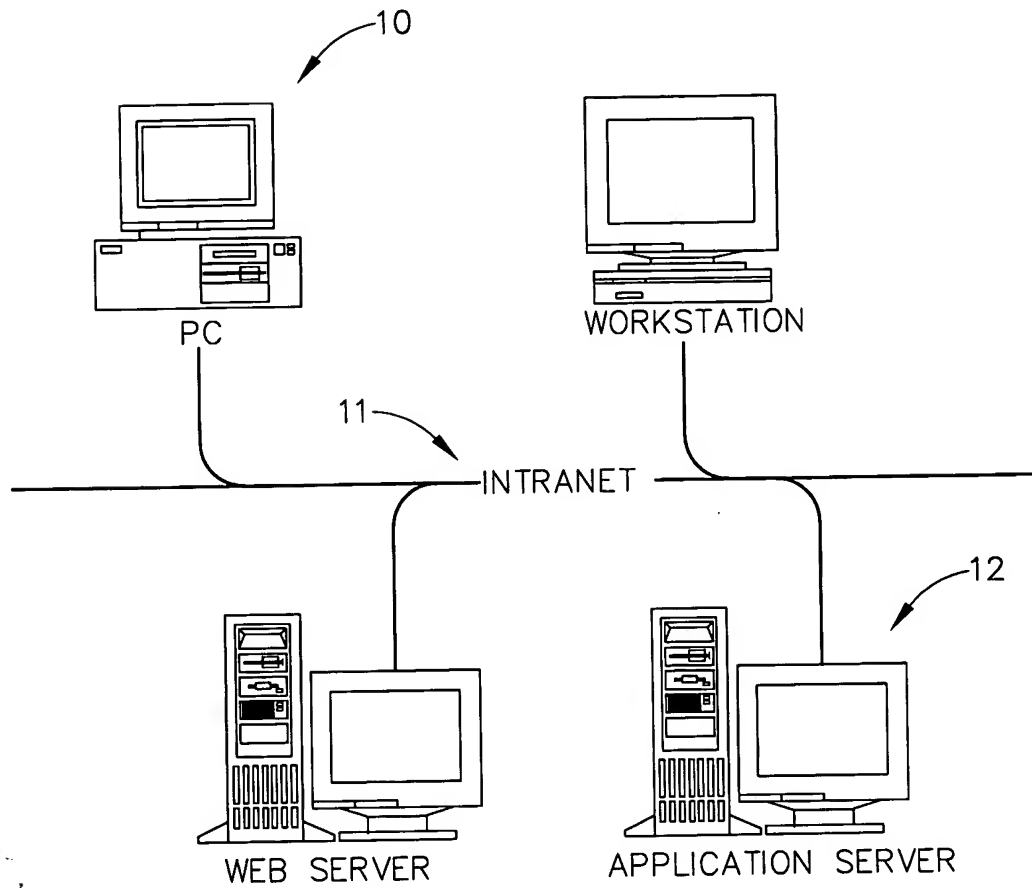


FIG. 1

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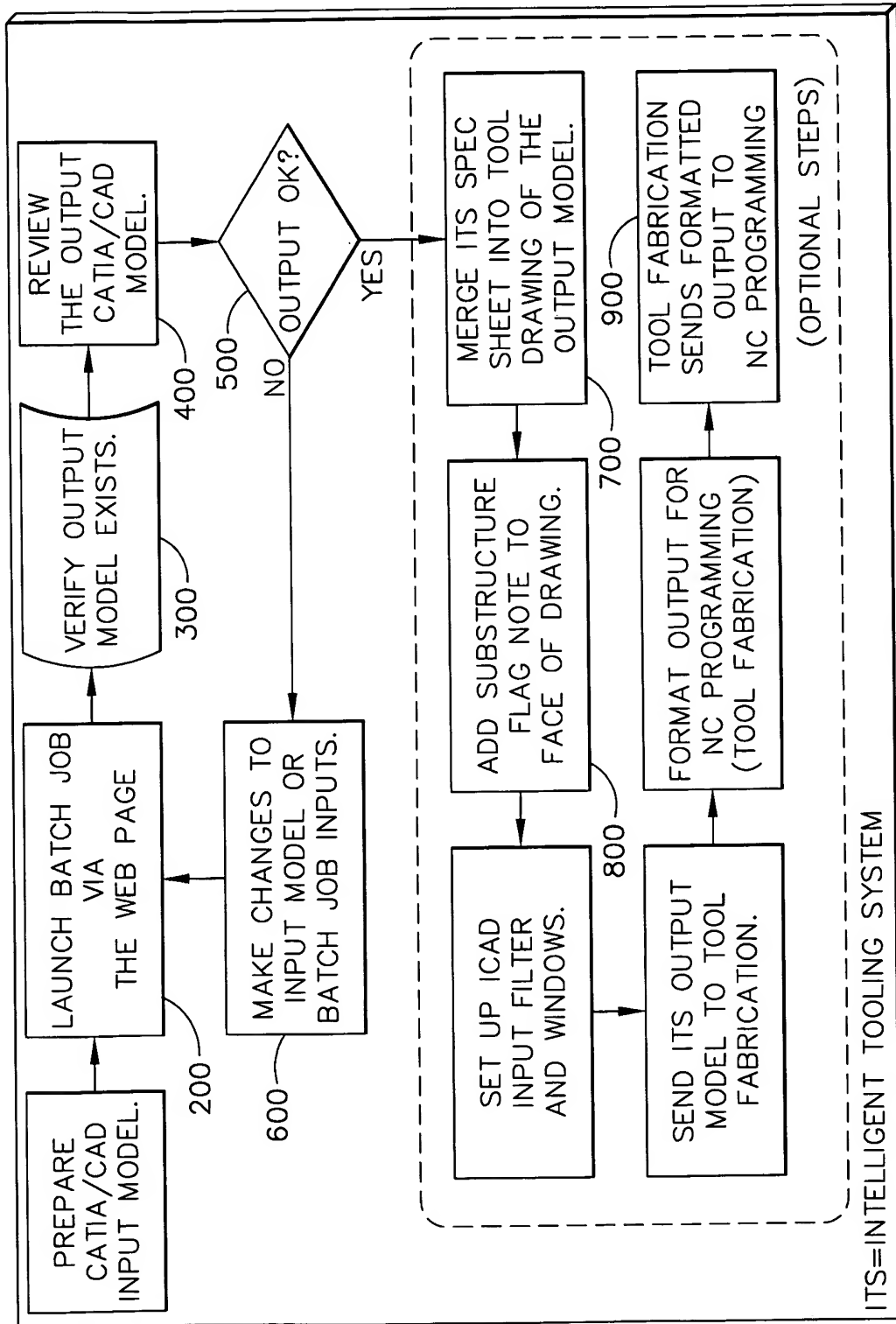


FIG. 2

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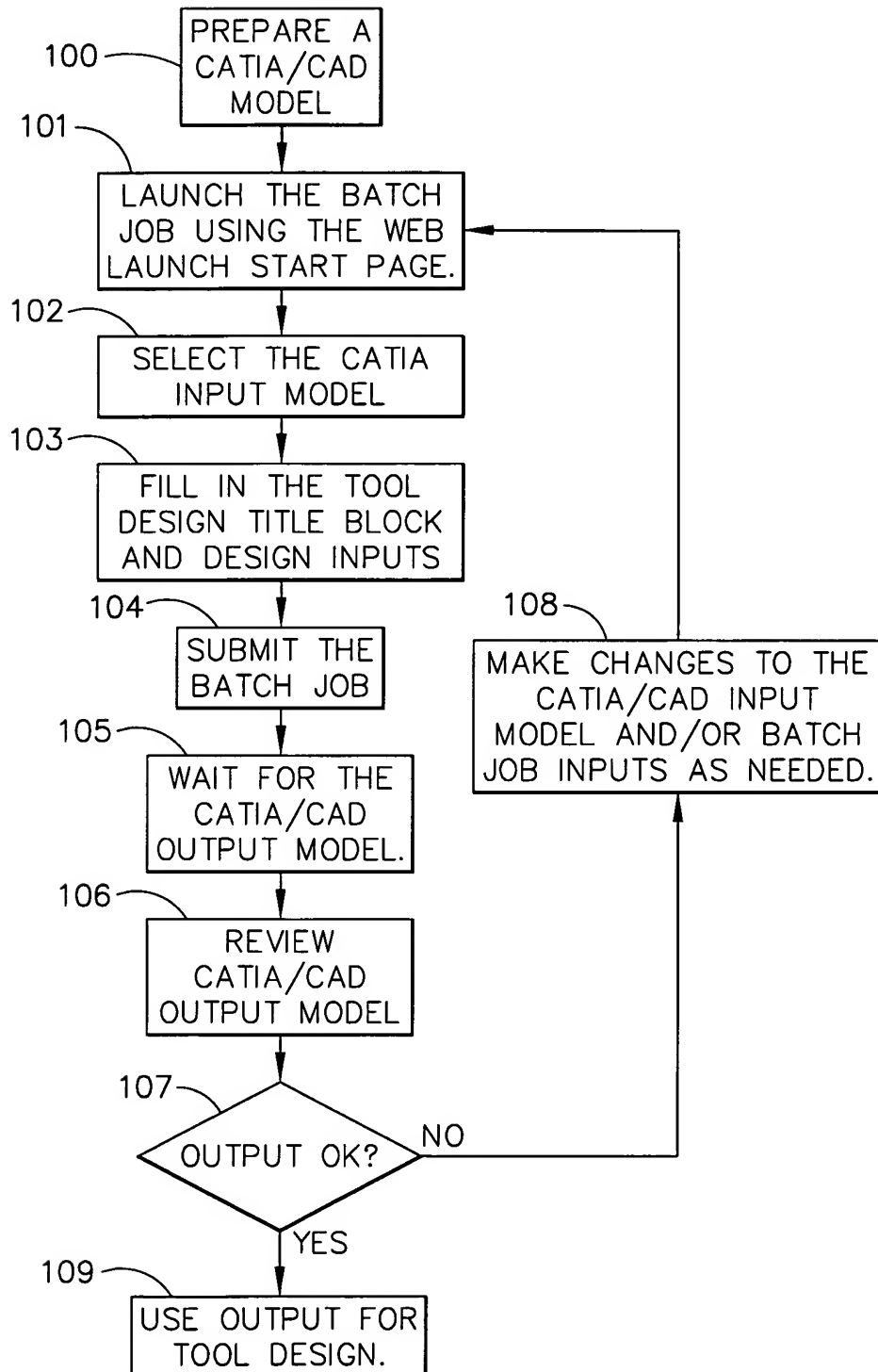


FIG. 3

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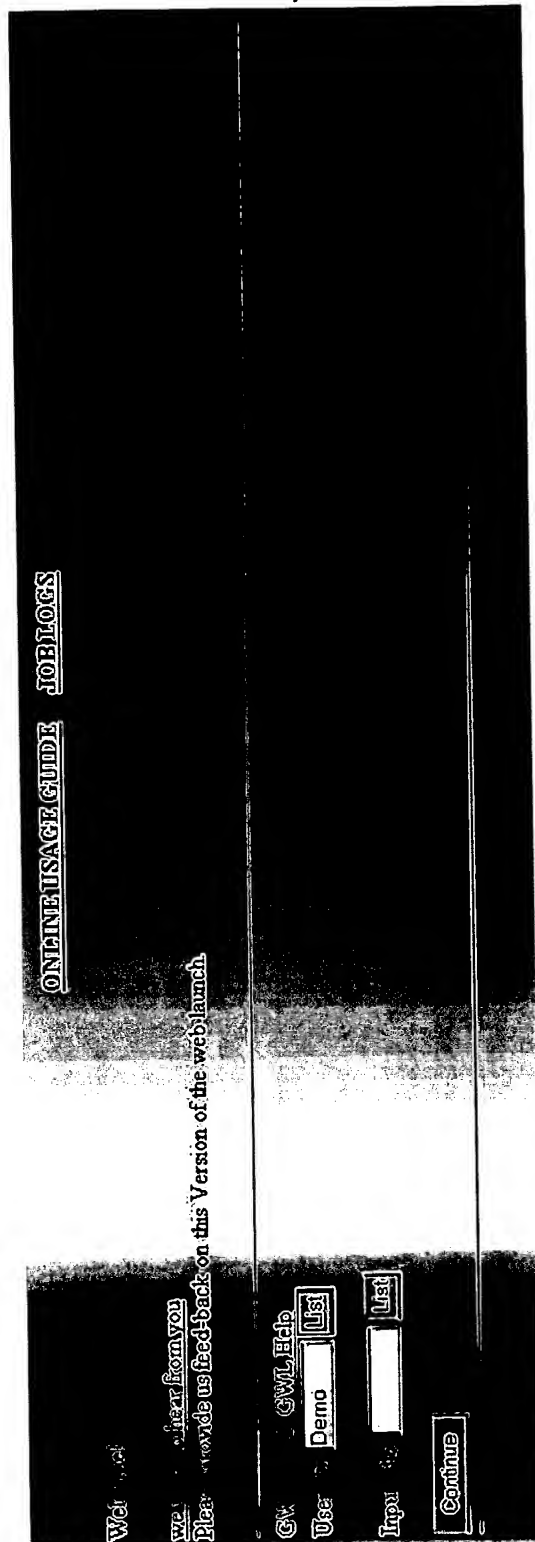


FIG. 4

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ILBBAJ - Select CATIA MODELS

Imp: CATIA Model

Model File Location:

User: Group (for maintenance listing only):

< CATIA FILE:

< MODEL string:

☐ Use cached listing if possible

FIG. 5

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Please fill out the form and submit.		LMBAJ Home Page		Online Usage Guide	Job Logs	Input Demo Videos	KBPD
Form Index							
Title Block							
Geometry Input Specs 1							
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Geometry Input Specs 3							
Top Curve Inputs							
Interlock Slot Inputs							
AC Notch Inputs							
Diagonal Inputs							
Lightening Hole Set Inputs							
Output Options							
Submit Job							

TITLE BLOCK INPUTS

- Tool Code:
- Tool Number:
- Sheet Number:
- Sheet Rev Level:
- Part Number:
- TDR,TF-CS Number:
- User Name:
- Organization:
- Phone Number:

Output the Draw Input Spec Sheet?: ☒ NO ☐ YES
Output the Comments Page Input Spec Sheet?: ☒ NO ☐ YES

FIG. 6

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Please fill out the form and submit.

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GEOMETRY INPUT SPECS 1

Default Layer Offset:

Thickness & Type(s)	Color(s)	Layer(s)	Offset n Layers
Top Surface Parts: <input checked="" type="checkbox"/> Face <input type="checkbox"/> Planer-face <input type="checkbox"/> Surface	<input type="checkbox"/> White <input checked="" type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red	10	
Q-Periphery Locations: Thk: <input type="text" value="1"/> Type: <input checked="" type="checkbox"/> Line <input checked="" type="checkbox"/> Plane	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input checked="" type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red	1	default
Q-Interior Header Locations: Thk: <input type="text" value="1"/> Type: <input checked="" type="checkbox"/> Line <input checked="" type="checkbox"/> Plane	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input checked="" type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input checked="" type="checkbox"/> Red	2	default
Q-Interior Intercoastal Locations: Thk: <input type="text" value="1"/> Type: <input checked="" type="checkbox"/> Line <input checked="" type="checkbox"/> Plane	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input checked="" type="checkbox"/> Red	3	default
Q-CB-Interior Header Locations: Thk: <input type="text" value="25"/> Depth: <input type="text" value="4.0"/> Overhang: <input type="text" value="10.0"/> Fillet Radius: <input type="text" value="25"/> LH? <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES Type: <input type="checkbox"/> Line <input type="checkbox"/> Plane	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input checked="" type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red		default
Q-CB-Interior Intercoastal Locations: Thk: <input type="text" value="1"/> Depth: <input type="text" value="8"/> Overhang: <input type="text" value="1"/> Fillet Radius: <input type="text" value="25"/> LH? <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES Type: <input checked="" type="checkbox"/> Line <input checked="" type="checkbox"/> Plane	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input checked="" type="checkbox"/> Red	4	default

FIG. 7

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Please fill out the form and submit.

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GEOMETRY INPUT SPECS 2

Submit Job

Thickness & Type(s)	Color(s)	Layer(s)	Offset n Layers
Q-Bottom Stiffener Intercoastal Locations: Thk: [25] Height: [6.0] Overhang: [0.0] Fillet Radius: [25] LH?: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Type: <input type="checkbox"/> Line <input type="checkbox"/> Plane			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red		[default]
Contour Seam Support Locations: Thk: [25] Depth: [4.0] Type: <input type="checkbox"/> Line <input type="checkbox"/> Plane			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red		[default]
Diagonal CB Intercoastal Locations: Thk: [25] Type: <input type="checkbox"/> Line <input type="checkbox"/> Plane			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red		[default]
Diagonal Interior Intercoastal Locations: Thk: [25] Type: <input type="checkbox"/> Line <input type="checkbox"/> Plane			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red		[default]
Snap-to-Diagonal Locations: <input checked="" type="checkbox"/> Line <input type="checkbox"/> Plane			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red	[5]	
Diagonal Locations: <input type="checkbox"/> Line <input type="checkbox"/> Plane			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red		
Stayout Area Solids: <input checked="" type="checkbox"/> Solid			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input checked="" type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red	[5]	
Lightening Hole Stayout Area Solids: <input checked="" type="checkbox"/> Solid			
	<input type="checkbox"/> White <input type="checkbox"/> Cyan <input checked="" type="checkbox"/> Yellow <input type="checkbox"/> Gray <input type="checkbox"/> Green <input type="checkbox"/> Blue <input type="checkbox"/> Magenta <input type="checkbox"/> Red	[6]	

FIG. 8

FIG. 9

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<p>Please fill out the form and submit.</p> <p>Form Index</p> <p><u>Title Block</u></p> <p><u>Geometry Input Specs 1</u></p> <p><u>Geometry Input Specs 2</u></p> <p><u>Geometry Input Specs 3</u></p> <p><u>Top Curve Inputs</u></p> <p><u>Interlock Slot Inputs</u></p> <p><u>AC Notch Inputs</u></p> <p><u>Diagonal Inputs</u></p> <p><u>Lightening Hole Set Inputs</u></p> <p><u>Output Options</u></p>	<div style="display: flex; justify-content: space-between; border-bottom: 1px solid black; margin-bottom: 10px;"> LMBAJ Home Page Online Usage Guide Job Logs Input Demo Videos KBPD </div> <h2 style="text-align: center; margin: 0;">Top CRV Creation Inputs</h2> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Top Curve Creation Method: Solids</p> <p>Point Collection:</p> <ul style="list-style-type: none"> • Number of X projections: 1 • Approximate spacing: 30 • Spacing Factor: 2.15 • Method: Projected Point • Multiple Method?: <input checked="" type="radio"/> NO <input type="radio"/> YES </div> <div style="width: 45%;"> <p>Top Curve Modification:</p> <ul style="list-style-type: none"> • Basis Offset: 0.0 • Smoothing Radius: 0.0 <p>CTOL (C2) Curve Inputs:</p> <ul style="list-style-type: none"> • Create C2 Type Top Curve?: <input type="radio"/> NO <input checked="" type="radio"/> YES • Curve Fitting Tolerance: 1005 • Degree: 3 </div> </div>
--	--

[Submit Job]

FIG. 10A

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Please fill out the form and submit.		LMBA, J Home Page		Online Usage Guide	Job Logs	Input Demo Videos	KBPD
Form Index		INTERLOCK SLOT INPUTS					
Title Block		<ul style="list-style-type: none">• Rounded Corners?: <input type="radio"/> NO <input checked="" type="radio"/> YES					
Geometry Input Specs 1		<ul style="list-style-type: none">• Slot to Slot Clearance: <input type="text" value="060"/>					
Geometry Input Specs 2		<ul style="list-style-type: none">• Edge Clearance: <input type="text" value="030"/>					
Geometry Input Specs 3							
Top Curve Inputs							
Interlock Slot Inputs							
AC Notch Inputs							
Diagonal Inputs							
Lightening Hole Set Inputs							
Output Options							
[Submit Job]							

FIG. 10B

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Please fill out the form and submit.

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AIR CIRCULATION NOTCH INPUTS

Include Air Circulation notch features?: ☐ NO ☒ YES Place Notches at Interlock Slot Joints?: ☐ NO ☒ YES
 Air Circulation Notch type: Place Notches at Butt Joints?: ☐ NO ☒ YES

- Minimum Separation:
- Min notch-to-notch:
- End Separation:
- Notch Depth:
- Max Notch Width:
- Min Notch Width:
- Notch fillet Radius:

Spacing Curve Smoothing Inputs

- Smooth Out AC Set Spacing Curve?: ☐ NO ☒ YES
- Spacing Curve Smoothing radius:

Thin Solid Area Test Inputs

- Check front and rear of notch for thin area?: ☐ NO ☒ YES
- Offset Test Distance:
- Minimum Test Angle:

Basis Area vs Final Area Test M4

- Check Area Using Area Test M4?: ☐ NO ☒ YES
- Test Factor:

FIG. 10C

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Please fill out the form and submit.

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DIAGONAL INPUTS

All Diagonal Types:

Thickness:

Height:

Same Diagonal Length Tol:

Interlock Slot Rounded Corners?: ☐ NO ☒ YES

Interlock Slot to Slot Clearance:

Interlock Slot Edge Clearance:

Snap-to Diagonals:

Solving Tolerance:

Use 2nd Algorithm?: ☐ NO ☒ YES

Maximum Number of Iterations:

Solved Length Clearance:

Stayout Area Added Clearance:

FIG. 10D

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Please fill out the form and submit.

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LIGHTENING HOLE INPUTS

Include Lightening Hole features?: ☐ NO ☒ YES
Lightening Hole type:
Stacked Lightening Hole features?: ☐ NO ☒ YES

- Fillet Radius:
- Separation:
- Stack separation:
- End separation:
- Base edge margin:
- Top Offset:

- Max hole width:
- Min hole width:
- Max hole height:
- Min hole height:
- Use Unblended Holes?: ☐ NO ☒ YES
- Valid Hole Test Factor:

Blended Truss Inputs

- Double Truss?: ☐ NO ☒ YES
- Single Truss Pattern:
- Truss Width:

Stayout Area Inputs

- Stayout Area Offset Distance:

FIG. 10E

FIG. 10F



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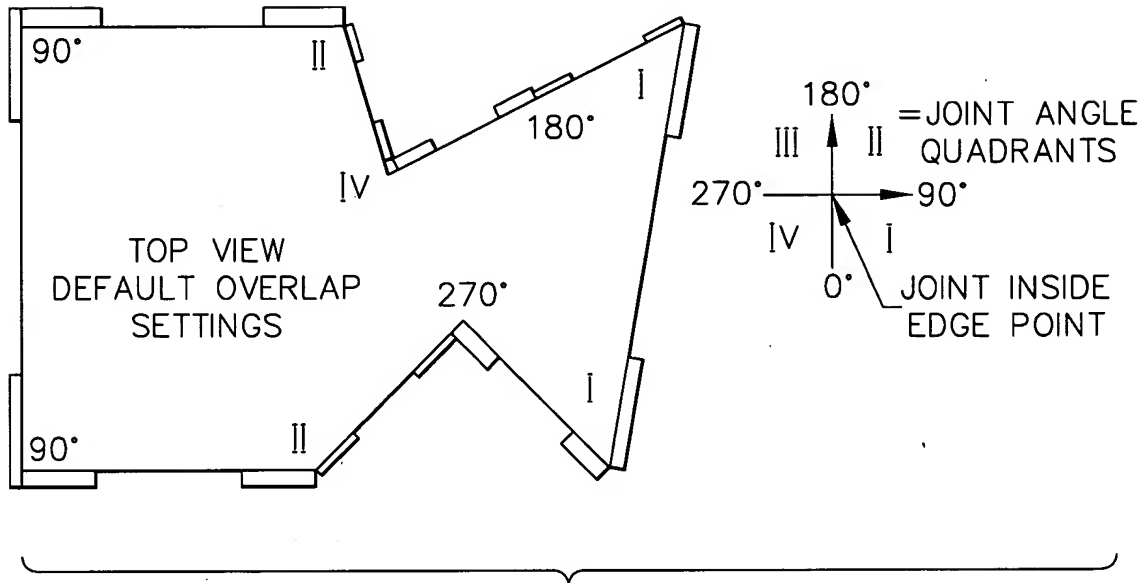


FIG. 13A

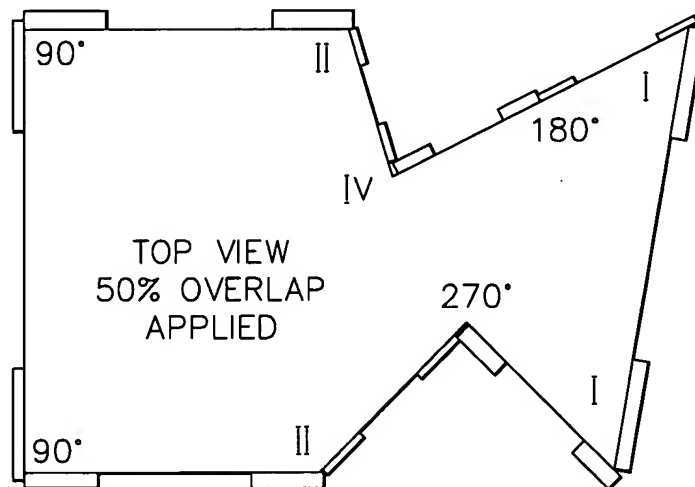


FIG. 13B

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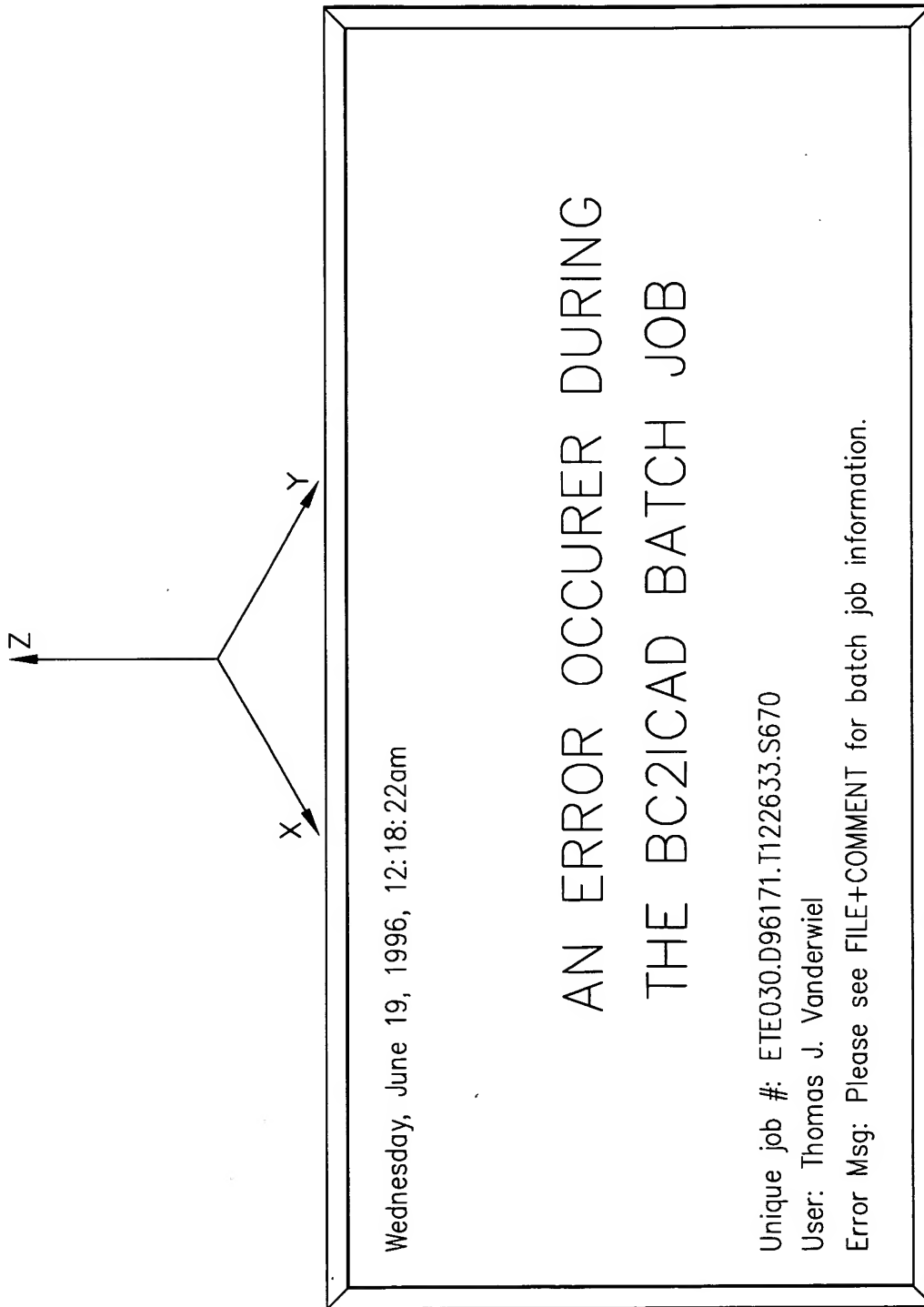
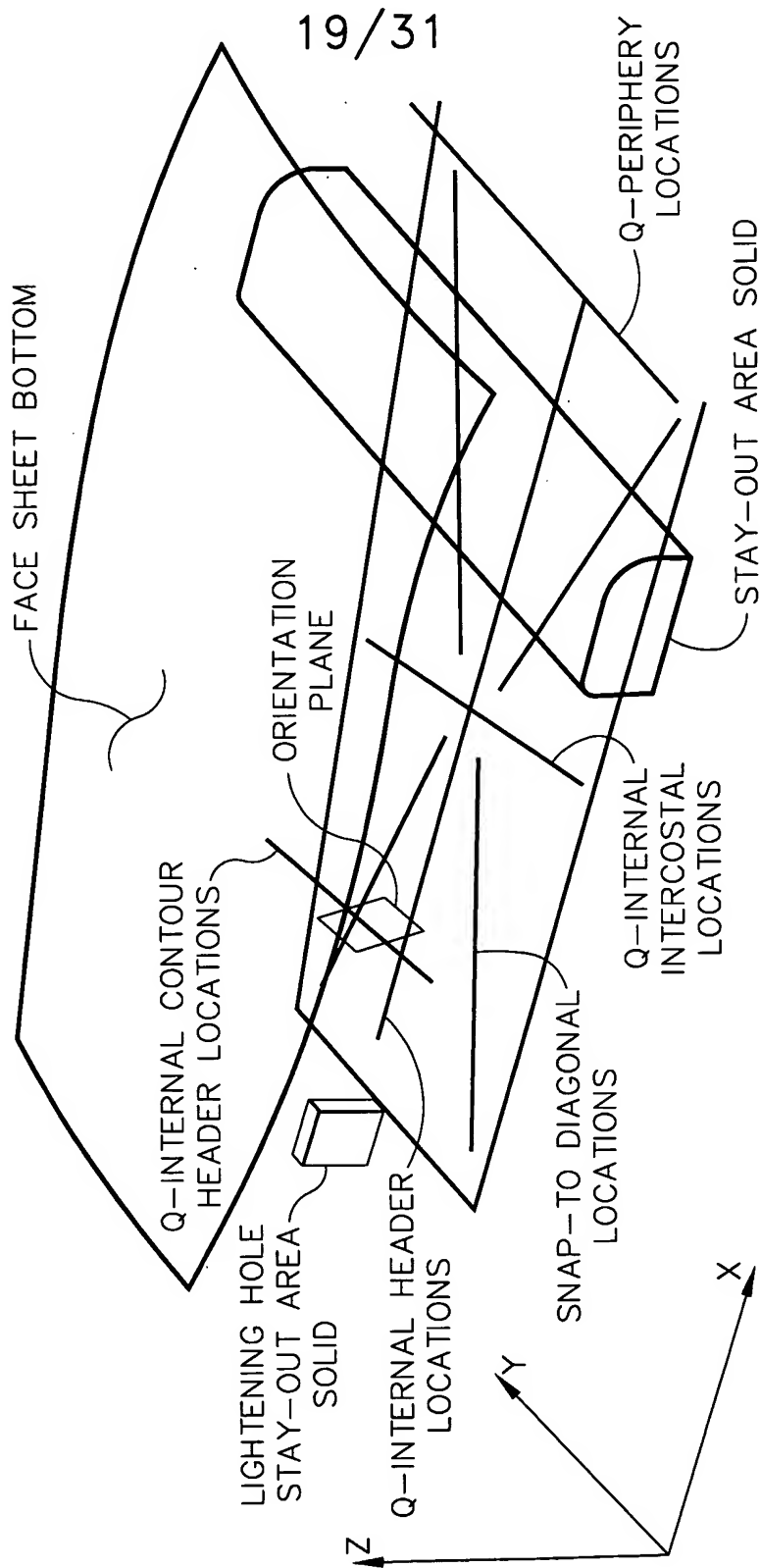
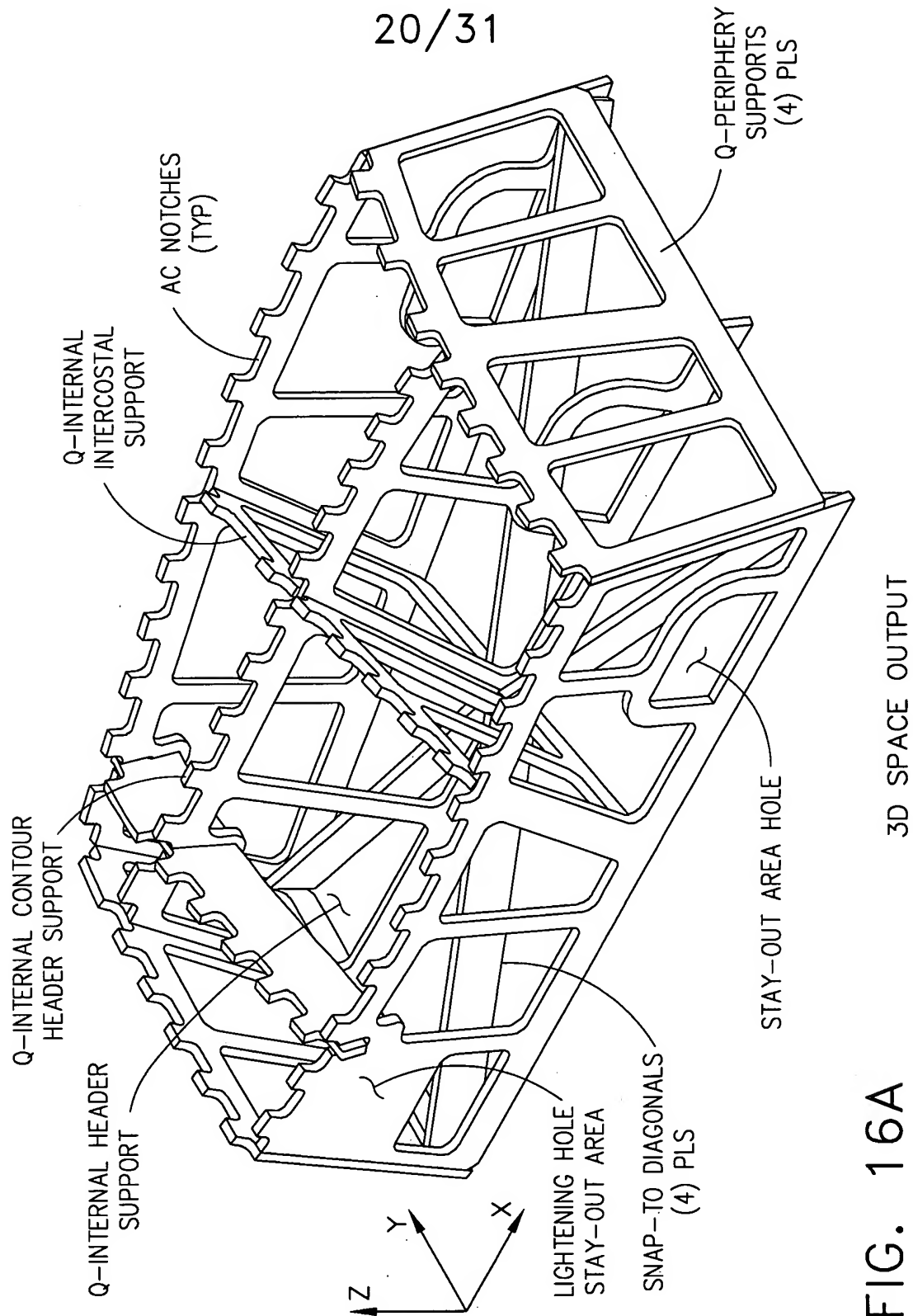


FIG. 14



QUICK 3D INPUT SKETCH

FIG. 15



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ITS Intelligent Tooling System		ICAD Input Spec Sheet	
Job Data Date: 7/6/1999 Tool Version: 7.0.1 Application: Eggrate Substructure Module Version: 11 Name: John Doe Organization: A-1021 Phone Number: 555-5555	Tool Info Tool Code: LM Tool Number: 1234567-TEST Sheet Number: 1 Sheet Rev Level: NEW Part Number: 1 Tdr Tl Co Number: T1234567		
Input Attribute Periphery Support Thk: Interior Support Thk: Contour Seam Support Thk: Contour Seam Support Depth: Periphery Support Layer: Interior Intercoastal Support Layer: Interior Header Support Layer: Contour Seam Support Layer: Reduce Bsplines To Lines For Output? Reduce Bsplines To Lines For Output? Reduce Bsplines To Lines Chord Ht: Reduce Bsplines To Lines Chord Ht Tol: Ac Include Air Circulation Notch Features?: Ac Notch Pattern: Ac Min Separation: Ac Min Notch To Notch Separation: Ac End Separation: Ac Notch Depth: Ac Max Notch Width: Ac Min Notch Width: Ac Notch Fillet Radius: Ac Default Fit Factor: Ac Bottom Fit Factor: Lh Include Lightening Hole Features?: Lh Type: Lh Fillet Radius: Lh Max Hole Width: Lh Min Hole Width: Lh Truss Thickness: Lh Stacked Holes?:	Value 0.375 0.25 0.25 4 NIL NIL NIL NIL NIL NIL NIL 0.01 0.005 T FILLETED-NOTCH 2.0 1.7 1.0 2.0 4.0 2.5 0.5 0.6 0.6 T BLENDED-RECTANGLE 0.5 22 6 1 T		
Input Attribute Lh Stack Separation: Lh Max Hole Height: Lh Min Hole Height: Lh Double Truss?: Lh Single Truss Pattern: Lh Stayout Area Solids: Lh Remove Holes That Touch?:	Value 1 12 6 T ALTERNATE-STACK-AND-SUBSET NIL NIL		

Page 2 of 2

Page 1 of 2

2D Draw
 (Input Spec Sheets)

FIG. 16B

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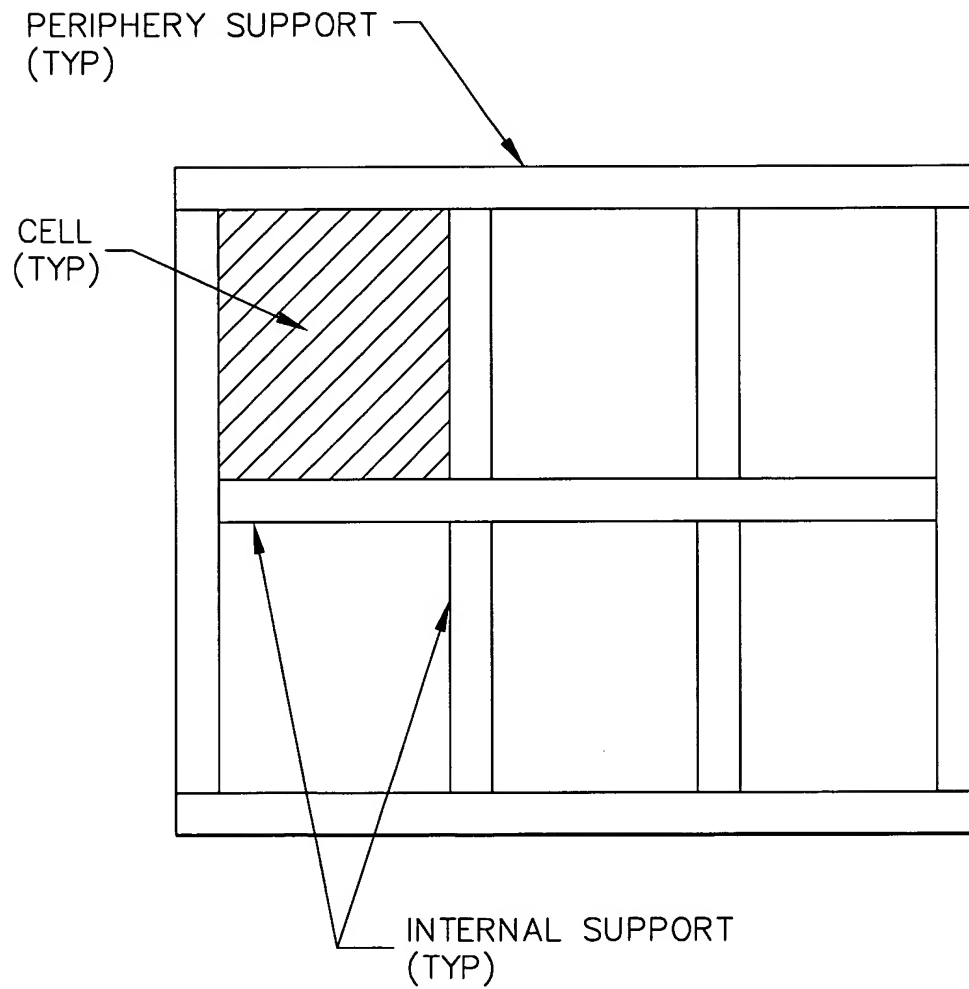


FIG. 17

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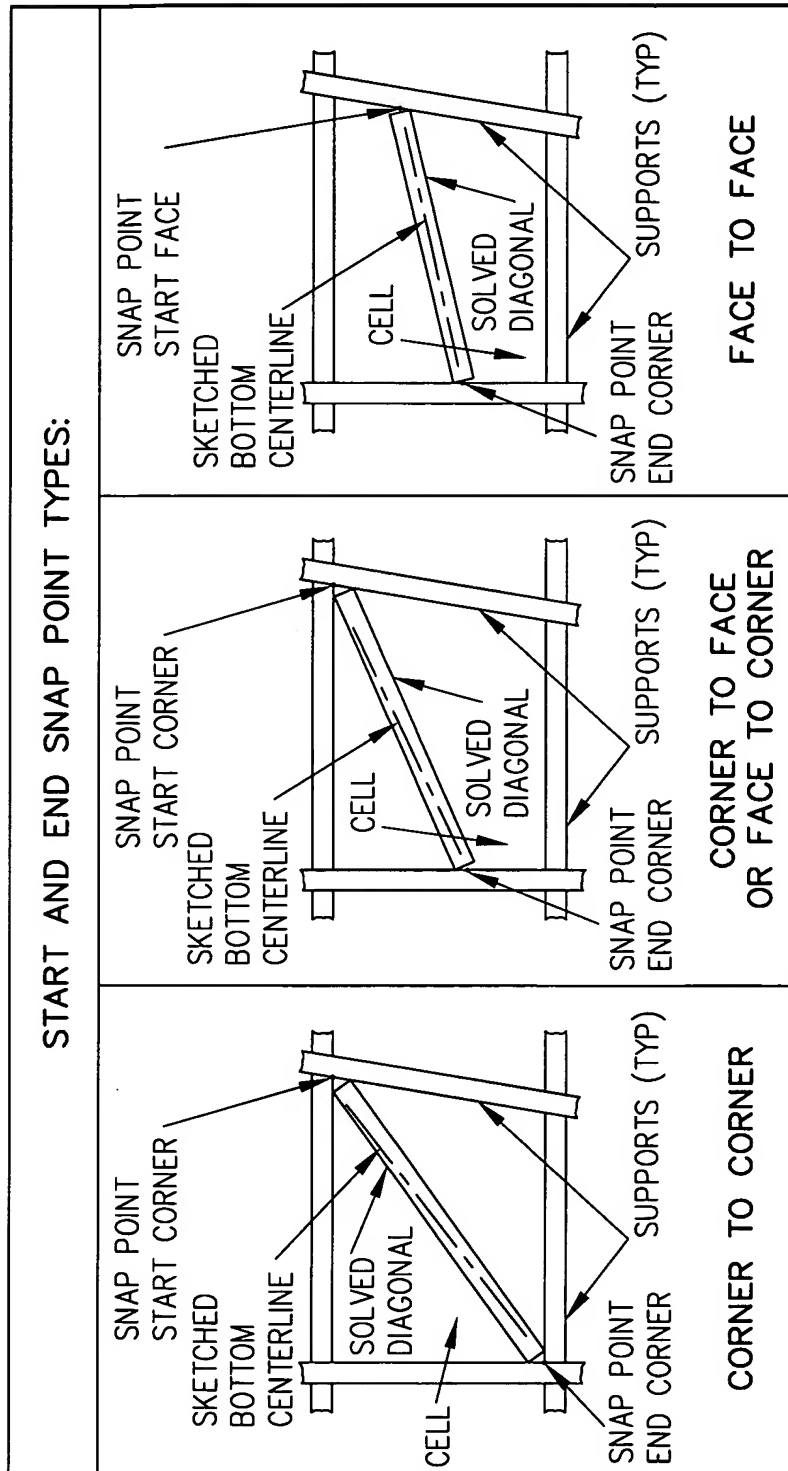


FIG. 18

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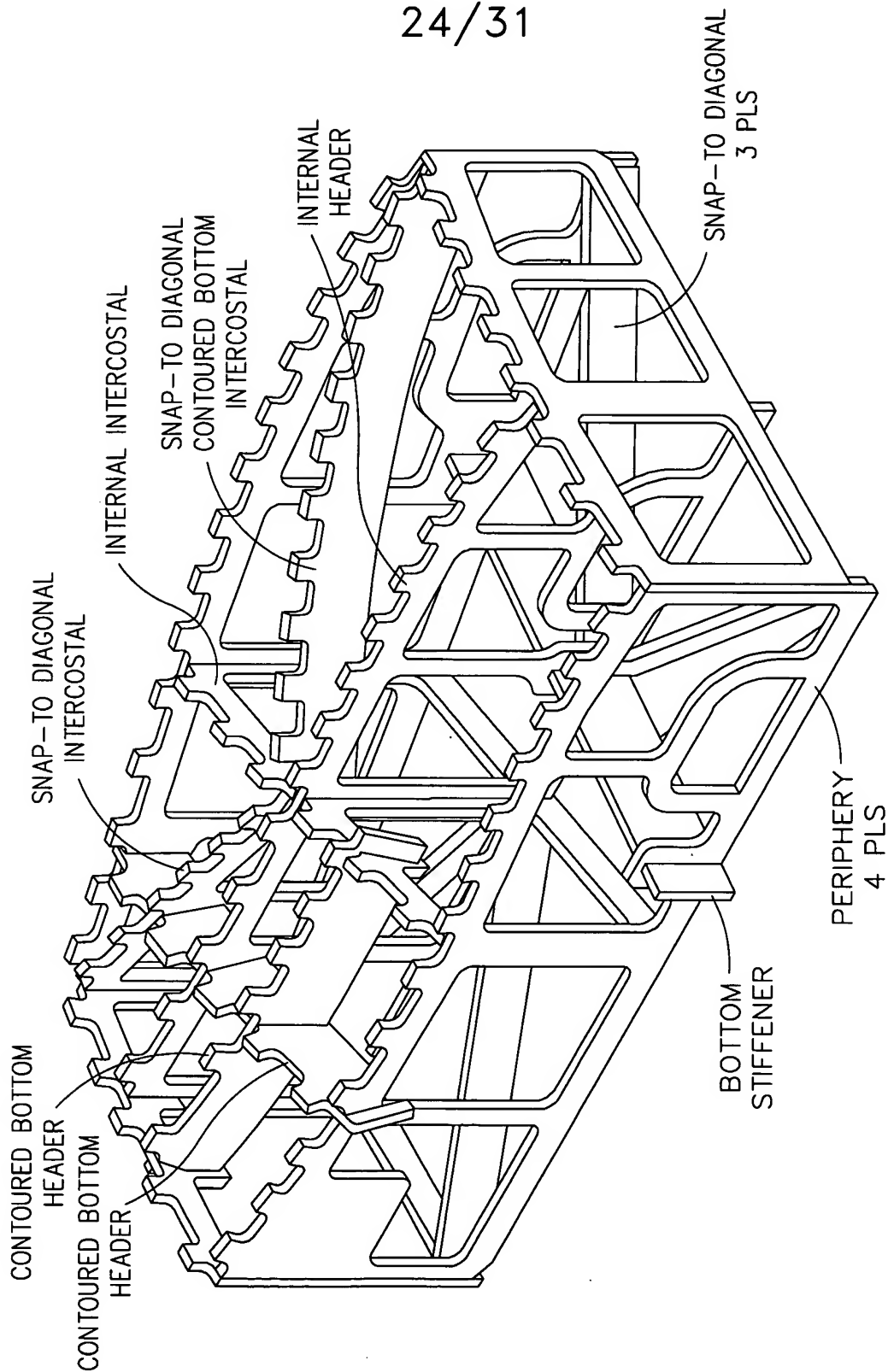


FIG. 19

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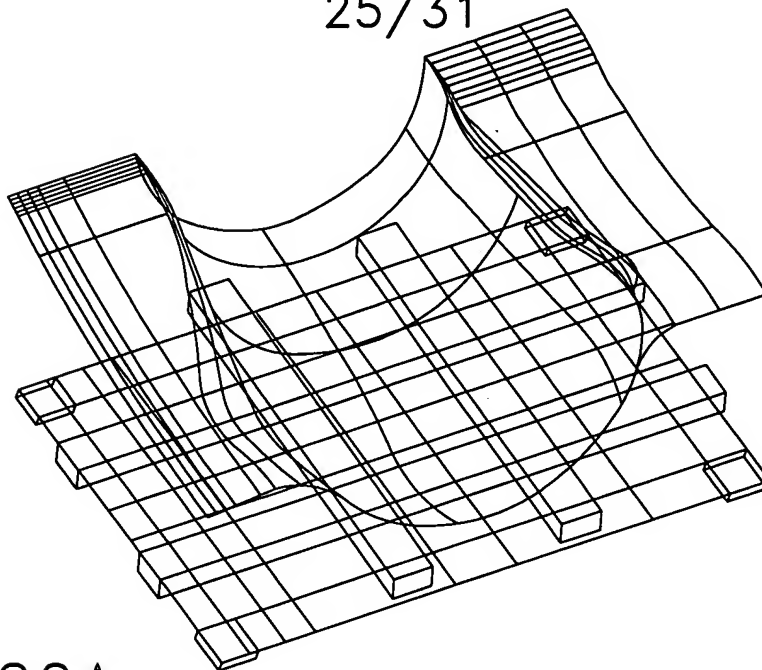


FIG. 20A

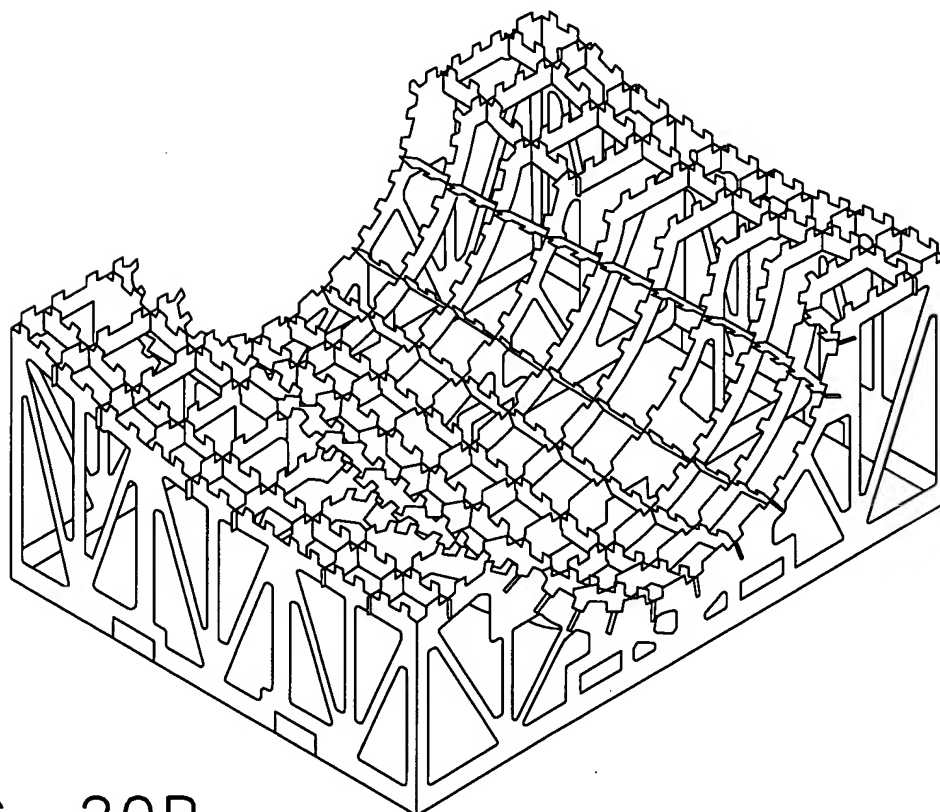


FIG. 20B

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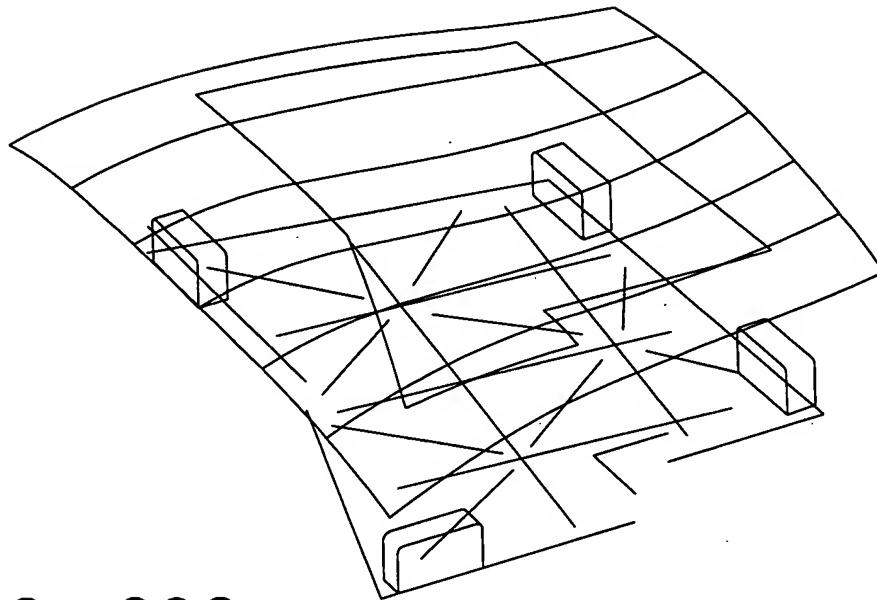


FIG. 20C

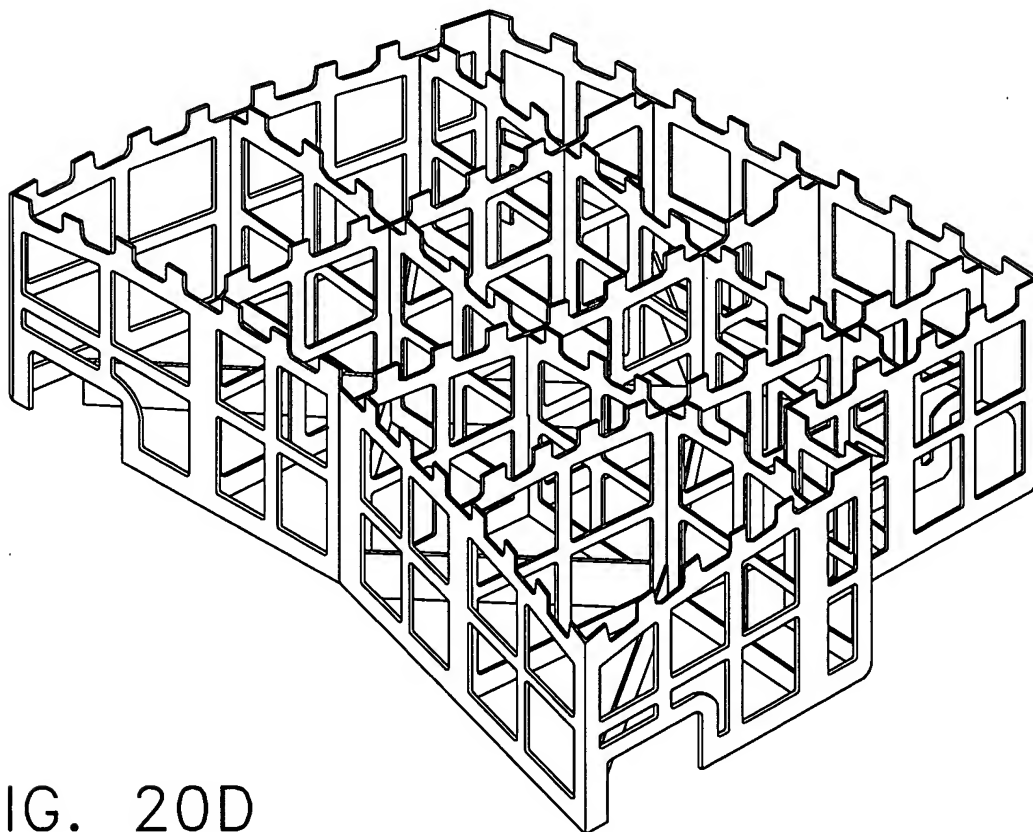


FIG. 20D

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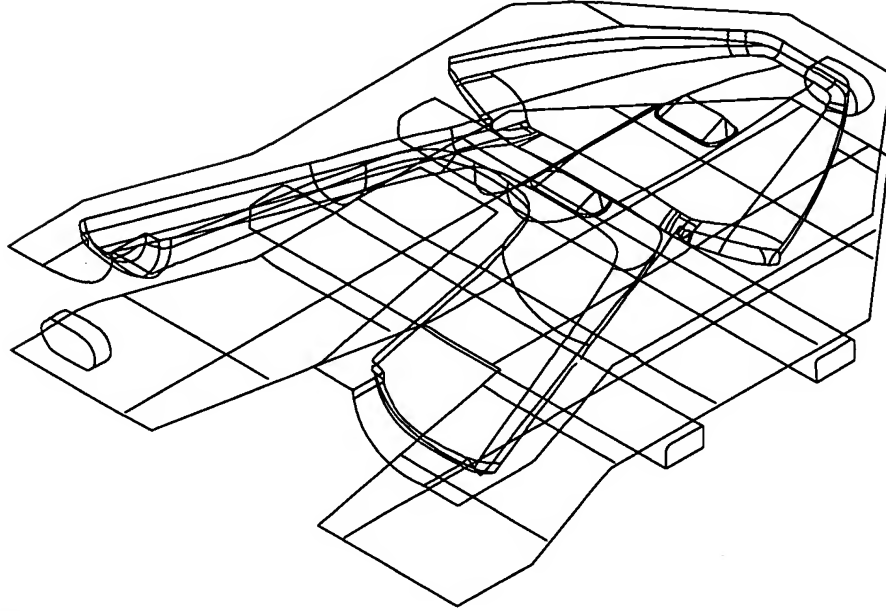


FIG. 20E

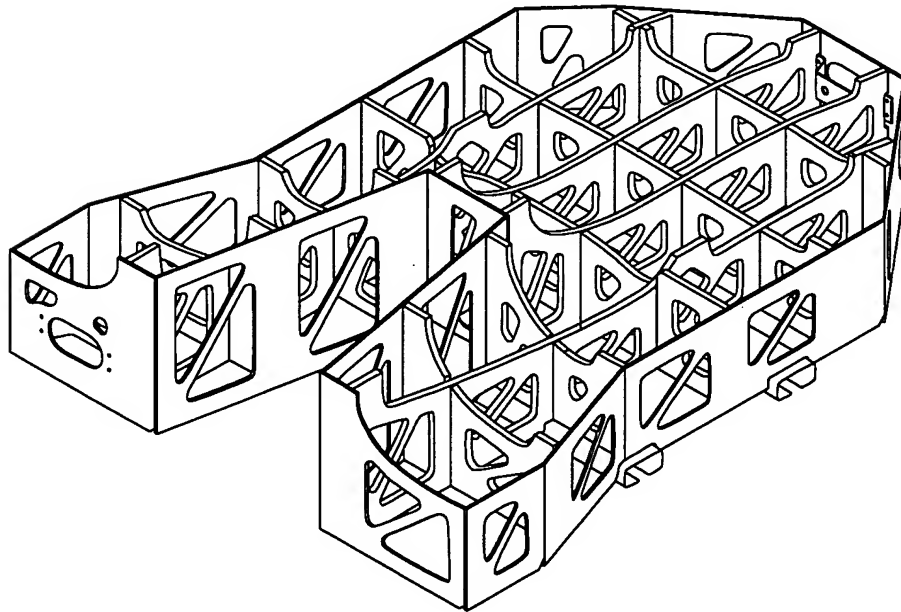


FIG. 20F

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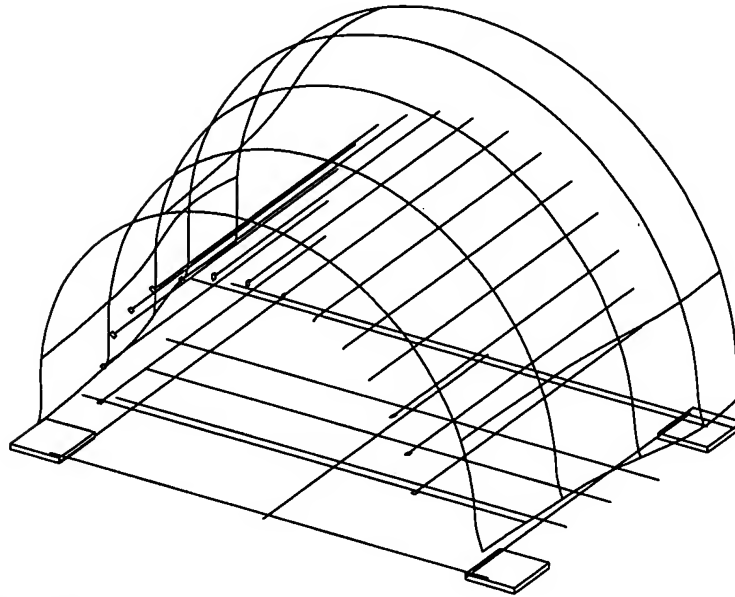


FIG. 20G

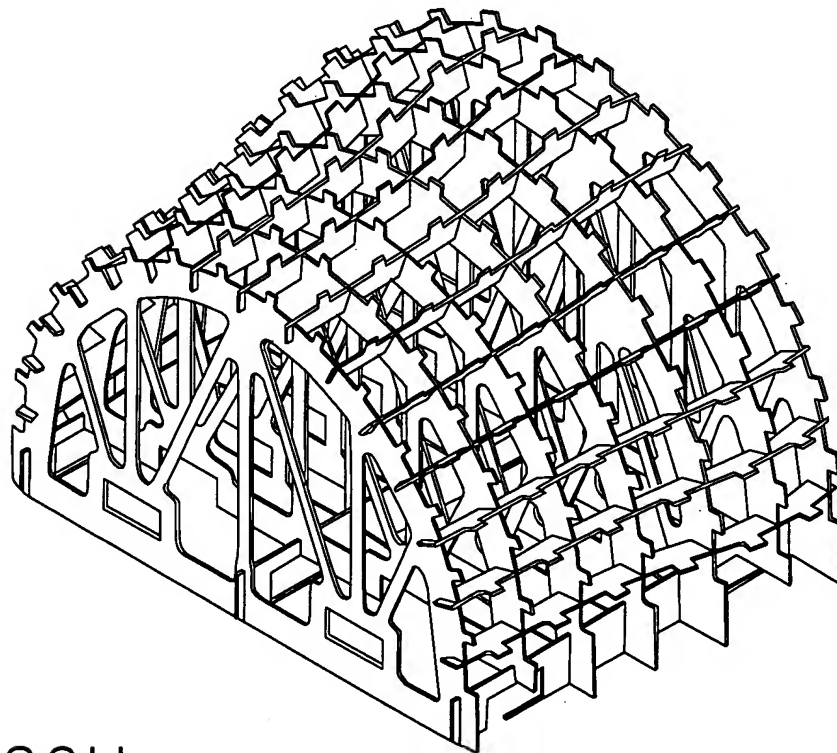


FIG. 20H

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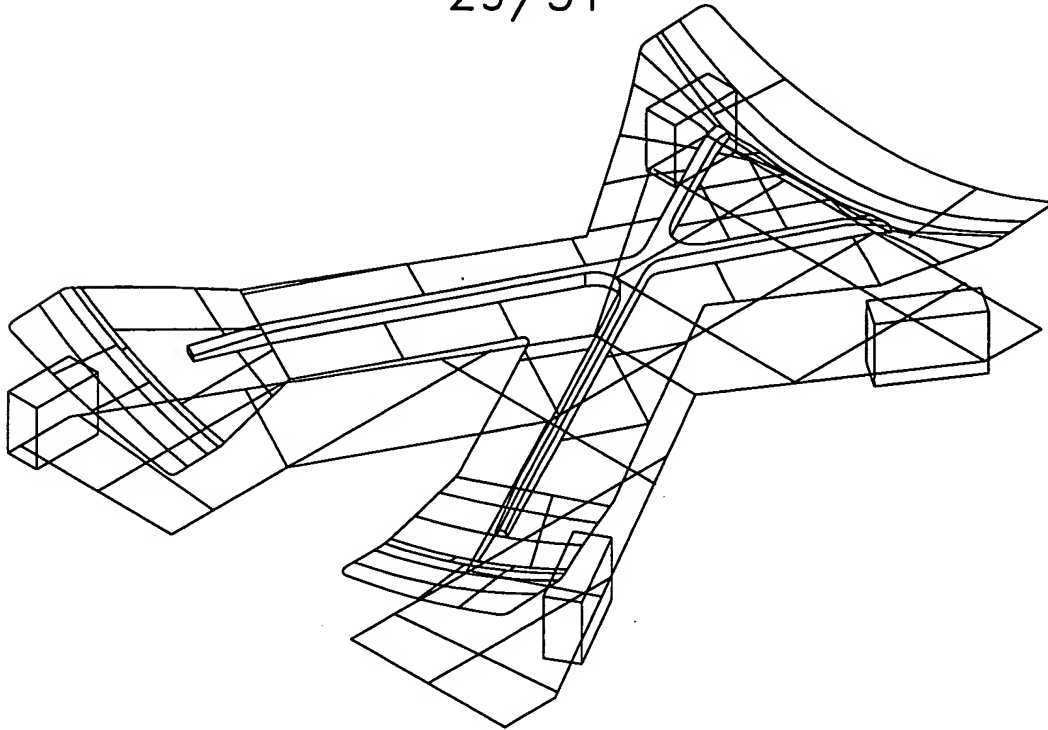


FIG. 20I

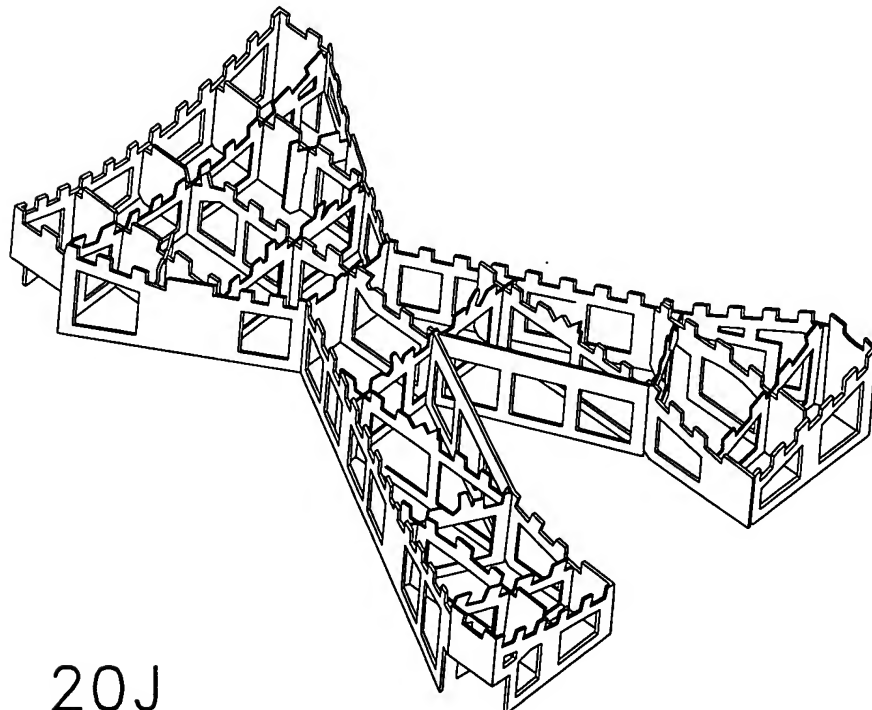


FIG. 20J

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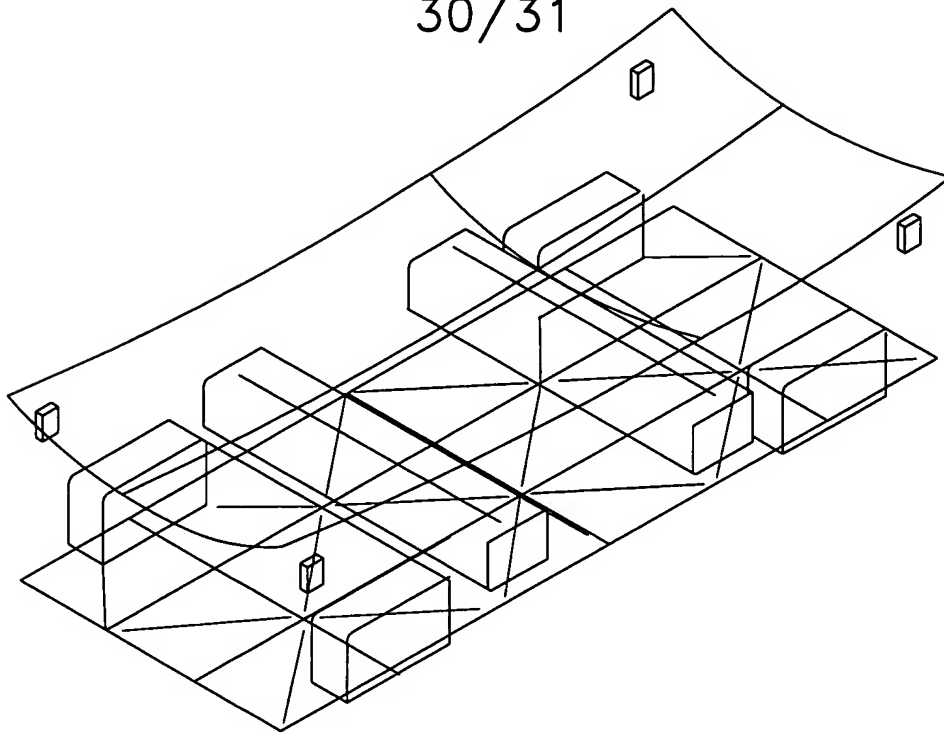


FIG. 20K

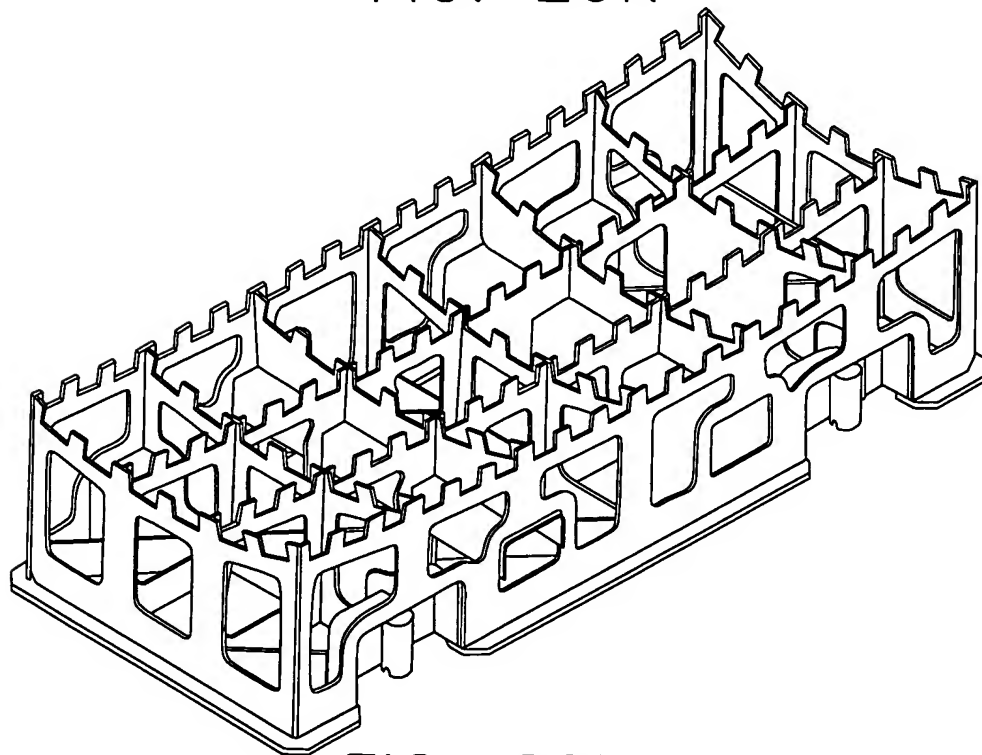


FIG. 20L

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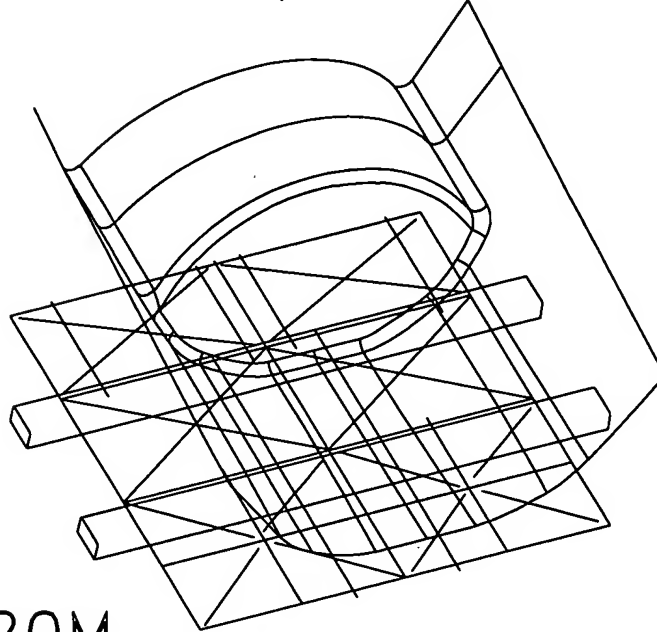


FIG. 20M

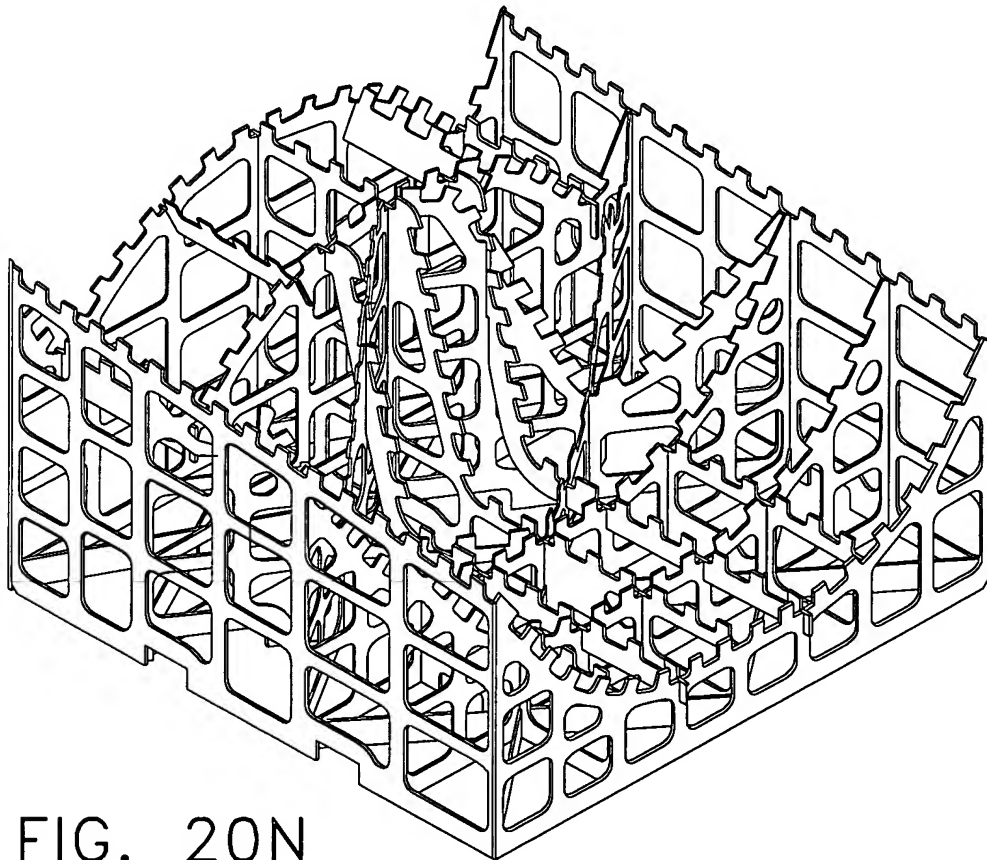


FIG. 20N